

CLAIMS

1. A curable composition which comprises following components (A) to (D) as essential components.

- 5 (A) an organic polymer containing, within the molecule, at least one alkenyl group capable of undergoing hydrosilylation but not containing at least one group selected from an alkoxy group and an epoxy group,
10 (B) a compound containing at least two hydrosilyl groups within the molecule,
(C) a hydrosilylation catalyst and
(D) a compound containing at least one structure selected from the structure represented by the general formula (1);
M-OR (1)
15 (wherein M is an atom selected from a silicon atom, an aluminum atom and a titanium atom, and R is a hydrocarbon group); and an epoxy group structure.

2. The curable composition according to Claim 1
20 wherein the weight ratio between the component (A) and the component (D) is within the range of 90.0:10.0 to 99.7:0.3.

3. The curable composition according to Claim 1 or 2
25 wherein the component (D) contains, within the molecule, at least one alkenyl group capable of undergoing hydrosilylation.

4. The curable composition according to Claim 3
30 wherein the three substituents bound to the double bond contained in the alkenyl group in the component (D) each is a hydrogen atom.

5. The curable composition according to Claim 3 or 4
35 wherein the composition comprises a component (E)

synthesized by reacting the component (B) in advance with the component (D) containing, within the molecule, at least one alkenyl group capable of undergoing hydrosilylation, the component (A) and the component (C) as essential
5 components.

6. The curable composition according to any of Claims
1 to 5

wherein the component (A) polymer contains, at a
10 molecule terminus, an alkenyl group capable of undergoing hydrosilylation.

7. The curable composition according to any of Claims
1 to 6

15 wherein the component (A) organic polymer is an oxyalkylene-based polymer.

8. The curable composition according to any of Claims
1 to 7

20 wherein a conductivity providing agent (F) is added to the curable composition according to any of Claims 1 to 7.

9. The curable composition according to any of Claims
25 1 to 8

wherein an elastomer obtained by curing of the curable composition has an ASKER-C hardness within the range of 20 to 80°.

30 10. An elastic roller

wherein at least one elastic layer derived from the curable composition according to any of Claims 1 to 9 is provided around a conductive shaft.

35 11. The elastic roller according to Claim 10

wherein at least one covering layer is provided around the outer surface of the elastic layer.

12. The elastic roller according to Claim 11
5 wherein the covering layer is derived from a urethane bond-containing compound.

13. The elastic roller according to Claim 11 or 12
10 wherein the elastic layer surface is treated with a primer and then the covering layer is formed thereon.